

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band 40 1 RF Power Output

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	2307.5	38725	5	1	0	21.92
				1	24	21.73
				12	6	20.97
				25	0	20.94
	2310.0	38750		1	0	20.85
				1	24	20.82
				12	6	20.04
				25	0	19.96
	2312.5	38775		1	0	20.76
				1	24	20.66
				12	6	19.95
				25	0	19.96
16QAM	2307.5	38725	5	1	0	21.89
				1	24	21.76
				12	6	20.96
				25	0	20.95
	2310.0	38750		1	0	20.88
				1	24	20.84
				12	6	20.06
				25	0	19.95
	2312.5	38775		1	0	20.68
				1	24	20.65
				12	6	20.01
				25	0	20.01
64QAM	2307.5	38725	5	1	0	21.87
				1	24	21.74
				12	6	20.94
				25	0	20.90
	2310.0	38750		1	0	20.85
				1	24	20.78
				12	6	20.03
				25	0	20.00
	2312.5	38775		1	0	20.77
				1	24	20.58
				12	6	20.01
				25	0	19.98

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	2352.5	39175	5	1	0	21.85
				1	24	21.70
				12	6	20.91
				25	0	20.96
	2355.0	39200		1	0	20.87
				1	24	20.78
				12	6	20.06
				25	0	20.00
	2357.5	39225		1	0	20.74
				1	24	20.66
				12	6	19.99
				25	0	19.91
16QAM	2352.5	39175	5	1	0	21.83
				1	24	21.72
				12	6	20.94
				25	0	20.90
	2355.0	39200		1	0	20.90
				1	24	20.78
				12	6	20.01
				25	0	19.99
	2357.5	39225		1	0	20.72
				1	24	20.65
				12	6	19.95
				25	0	19.97
64QAM	2352.5	39175	5	1	0	21.88
				1	24	21.74
				12	6	20.93
				25	0	20.91
	2355.0	39200		1	0	20.88
				1	24	20.78
				12	6	20.02
				25	0	19.92
	2357.5	39225		1	0	20.70
				1	24	20.64
				12	6	20.00
				25	0	20.00

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	2310	38750	10	1	0	21.93
				1	49	21.76
				24	12	20.99
				50	0	20.98
16QAM	2310	38750		1	0	20.94
				1	49	20.85
				24	12	20.09
64QAM	2310	38750		50	0	20.02
				1	0	20.77
				1	49	20.67
				24	12	20.04
				50	0	20.01
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	2355	39200	10	1	0	22.28
				1	49	22.19
				24	12	21.35
				50	0	21.32
16QAM	2355	39200		1	0	21.31
				1	49	21.29
				24	12	20.42
64QAM	2355	39200		50	0	20.36
				1	0	21.10
				1	49	21.08
				24	12	20.39
				50	0	20.33

2 Occupied Bandwidth

Test result

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)					
						QPSK		16-QAM		64-QAM	
40	2307.5	38725	5	25	0	4.4789	Fig.1	4.4747	Fig.2	4.4648	Fig.3
	2310.0	38750		25	0	4.4795	Fig.4	4.4716	Fig.5	4.4790	Fig.6
	2312.5	38775		25	0	4.4772	Fig.7	4.4769	Fig.8	4.4823	Fig.9
	2352.5	39175	5	25	0	4.4788	Fig.10	4.4759	Fig.11	4.4821	Fig.12
	2355.0	39200		25	0	4.4765	Fig.13	4.4786	Fig.14	4.4672	Fig.15
	2357.5	39225		25	0	4.4681	Fig.16	4.4670	Fig.17	4.4765	Fig.18
	2310.0	38750	10	50	0	8.9654	Fig.19	8.9633	Fig.20	8.9493	Fig.21
	2355.0	39200		50	0	8.9657	Fig.22	8.9429	Fig.23	8.9418	Fig.24

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)					
						QPSK		16-QAM		64-QAM	
40	2307.5	38725	5	25	0	5.028	Fig.1	5.025	Fig.2	4.981	Fig.3
	2310.0	38750		25	0	5.014	Fig.4	5.002	Fig.5	5.049	Fig.6
	2312.5	38775		25	0	5.045	Fig.7	5.023	Fig.8	4.998	Fig.9
	2352.5	39175	5	25	0	5.011	Fig.10	5.036	Fig.11	5.005	Fig.12
	2355.0	39200		25	0	5.014	Fig.13	4.987	Fig.14	5.027	Fig.15
	2357.5	39225		25	0	5.001	Fig.16	5.024	Fig.17	5.034	Fig.18
	2310.0	38750	10	50	0	10.08	Fig.19	10.01	Fig.20	9.970	Fig.21
	2355.0	39200		50	0	10.03	Fig.22	10.00	Fig.23	10.10	Fig.24

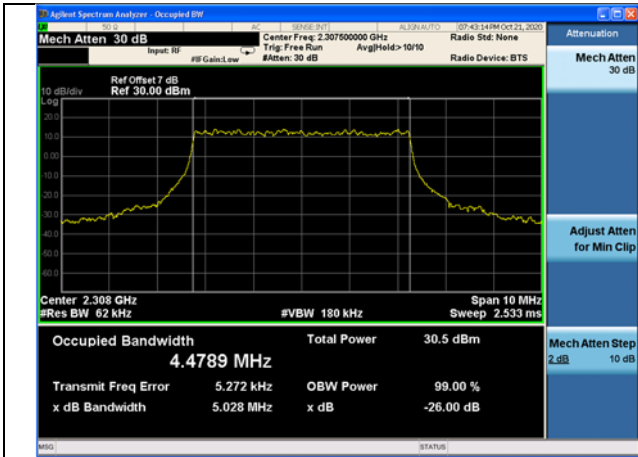


Fig.1

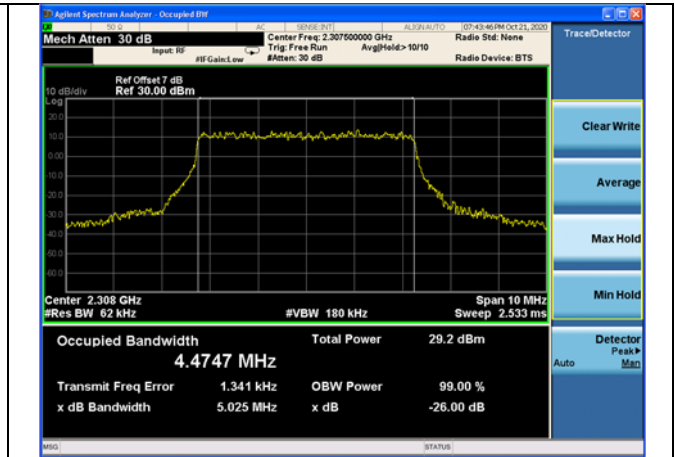


Fig.2

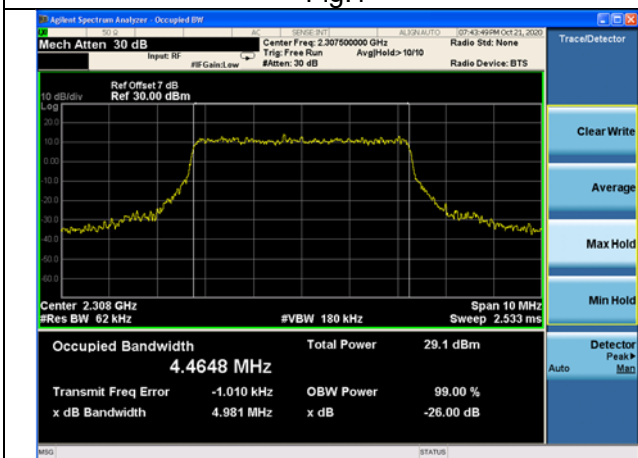


Fig.3

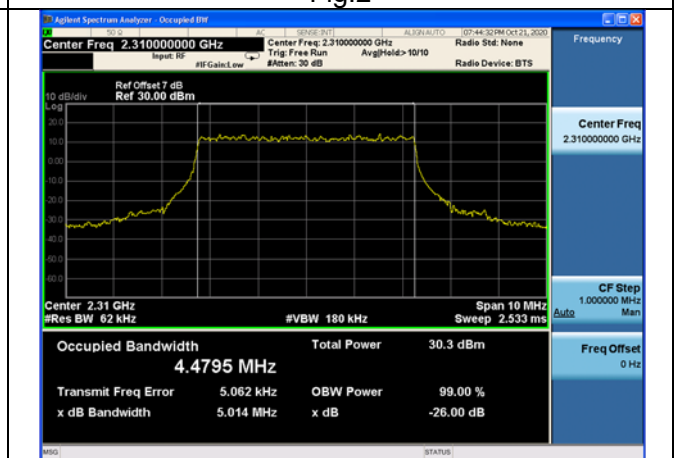


Fig.4

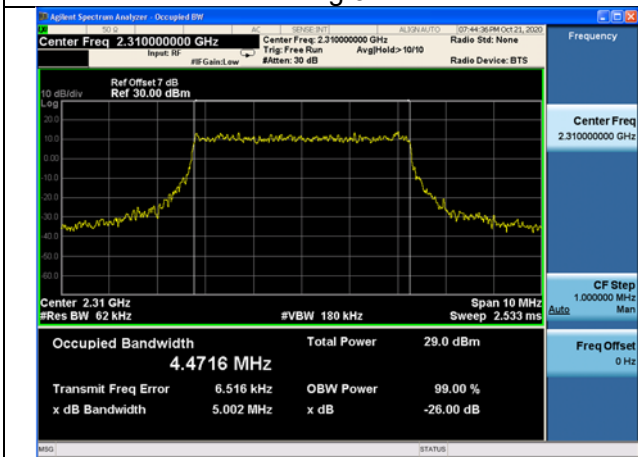


Fig.5

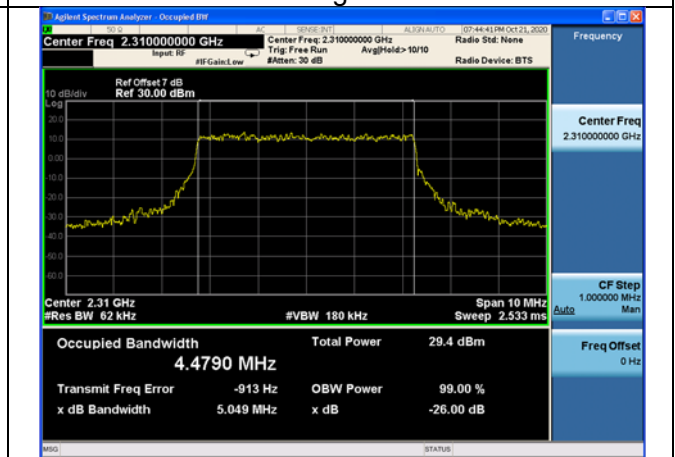


Fig.6

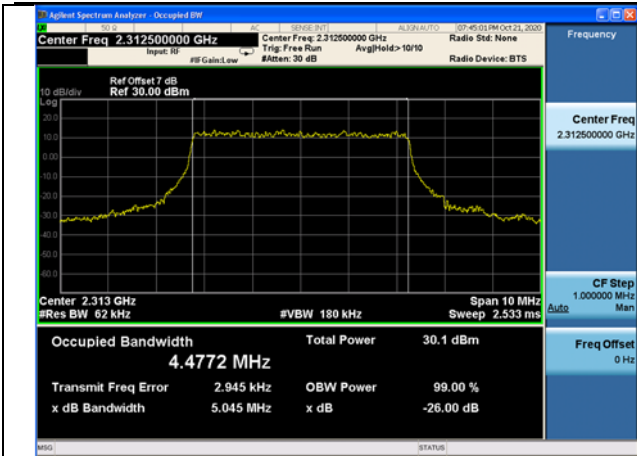


Fig.7

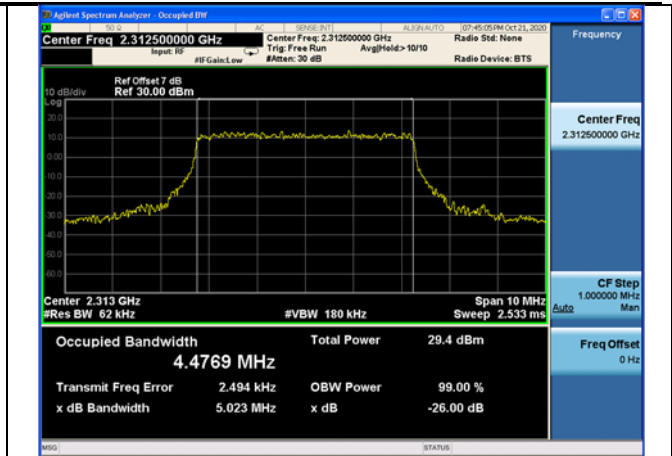


Fig.8

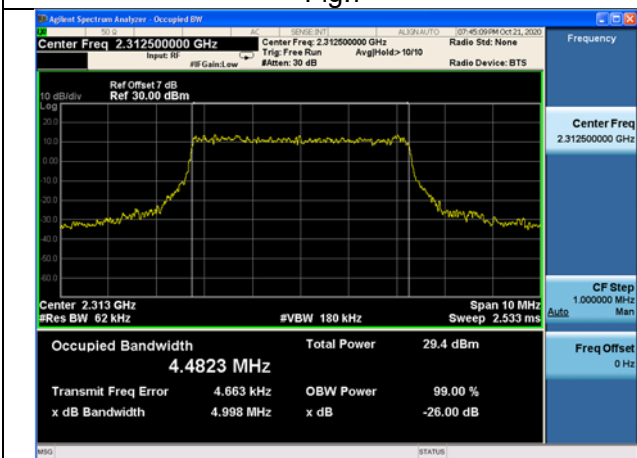


Fig.9

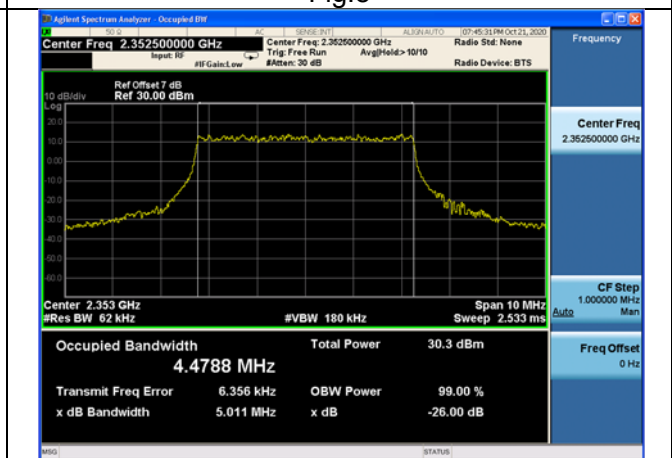


Fig.10

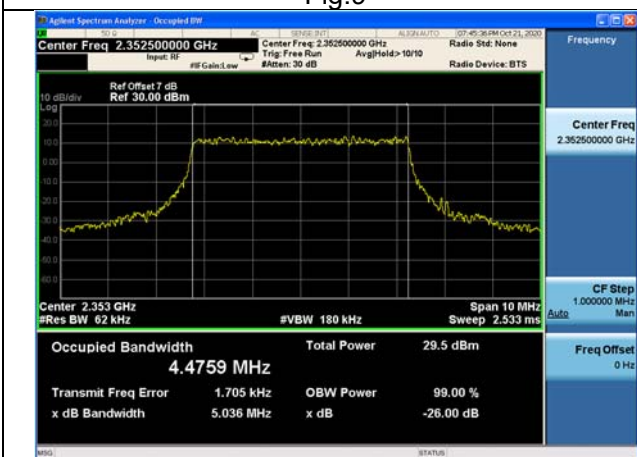


Fig.11

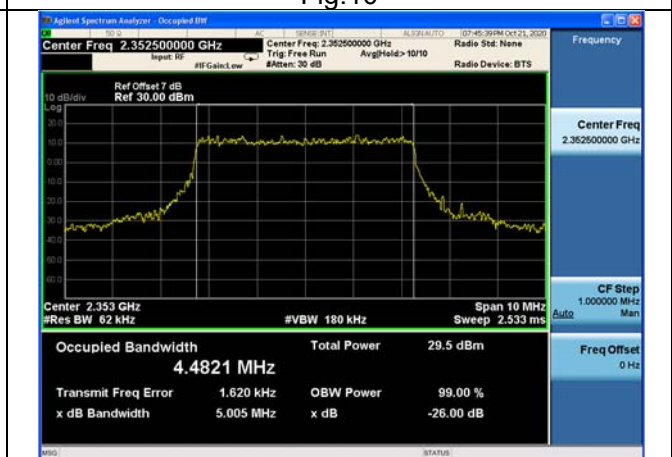


Fig.12

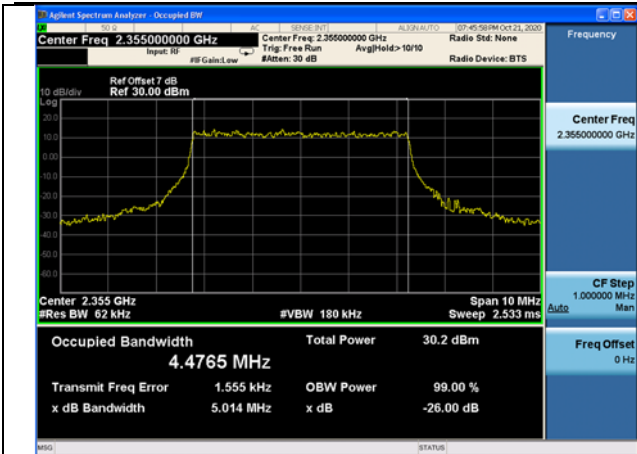


Fig.13

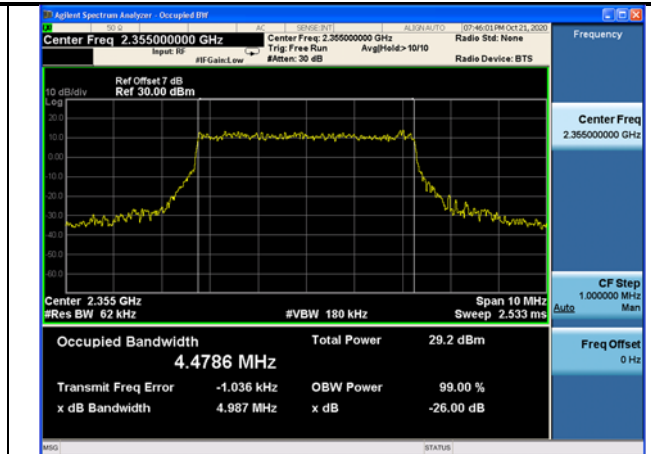


Fig.14

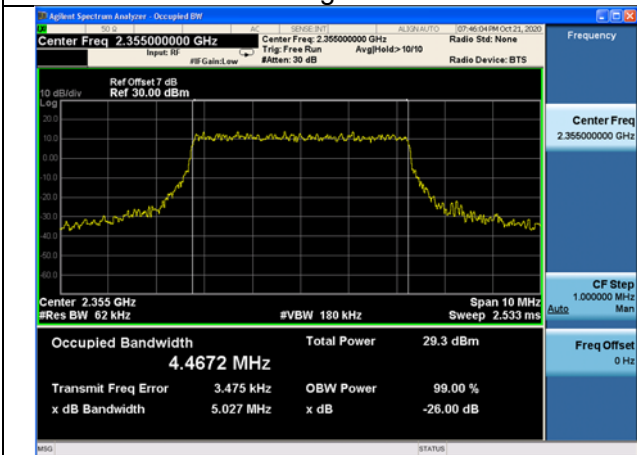


Fig.15

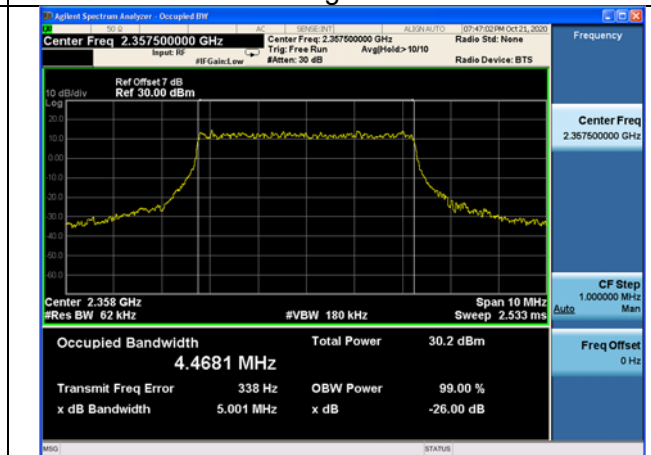


Fig.16

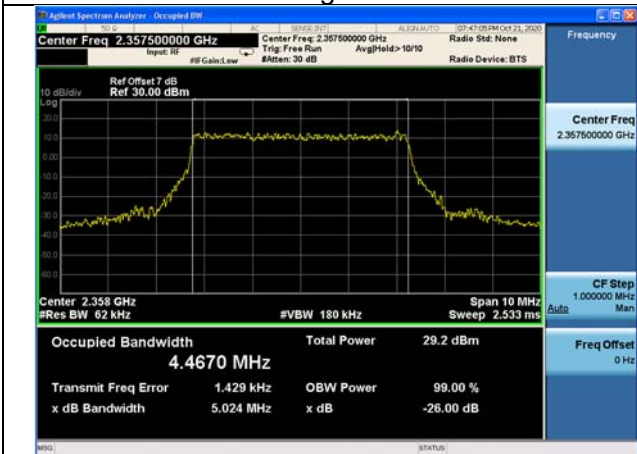


Fig.17



Fig.18

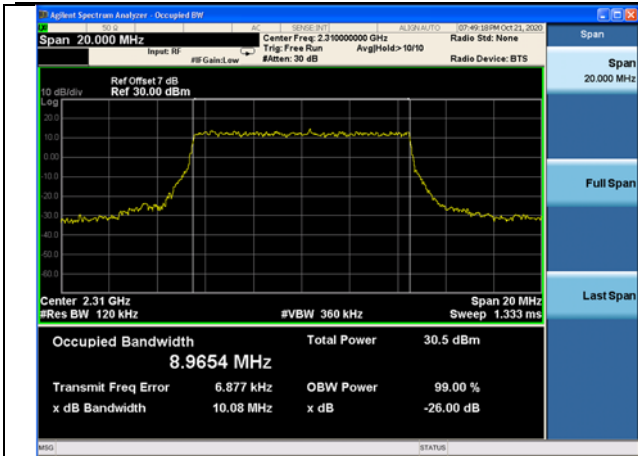


Fig.19

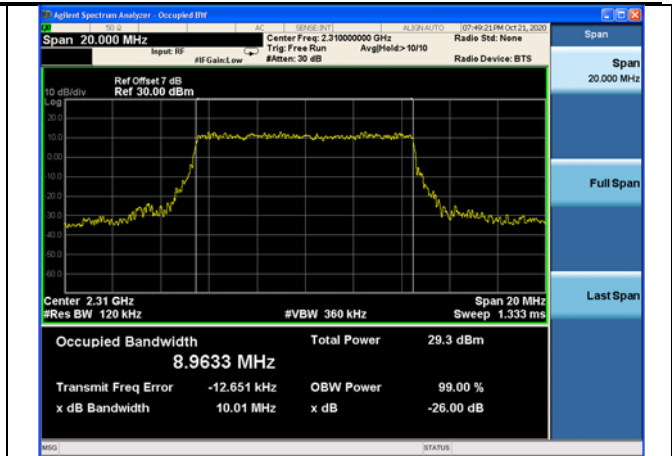


Fig.20

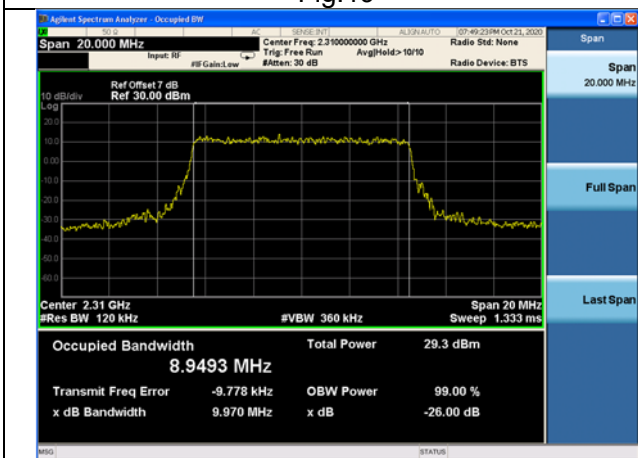


Fig.21

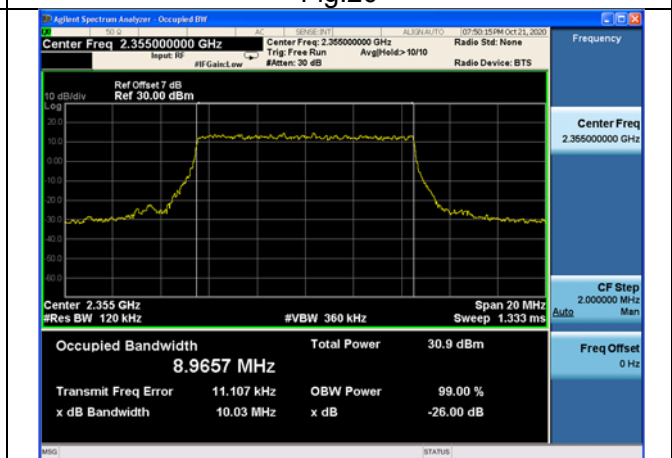


Fig.22

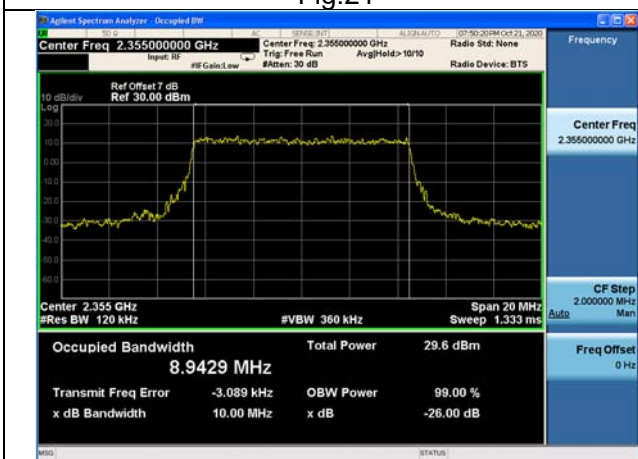


Fig.23

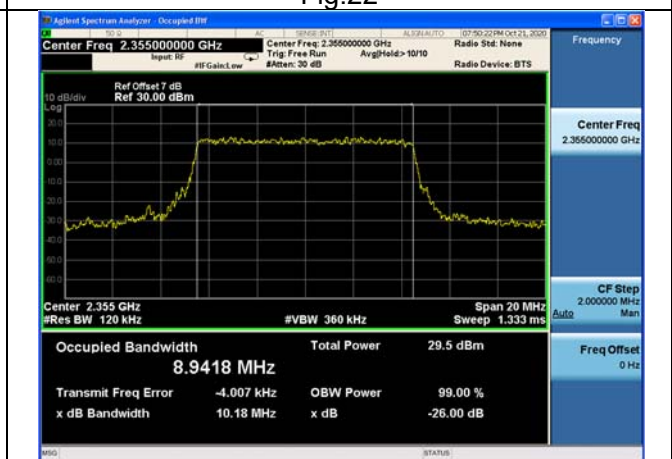


Fig.24

3 Peak-Average Ratio

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	QPSK	16-QAM	64-QAM
40	2310.0	38750	5	1	0	Fig.1	Fig.2	Fig.3
			10	1	0	Fig.4	Fig.5	Fig.6
	2355.0	39200	5	1	0	Fig.7	Fig.8	Fig.9
			10	1	0	Fig.10	Fig.11	Fig.12

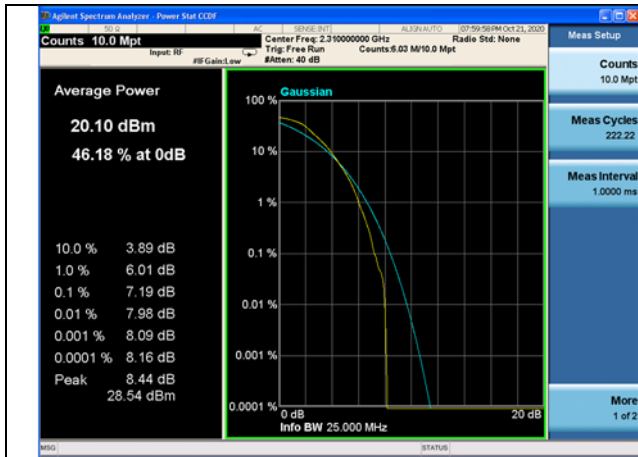


Fig.1

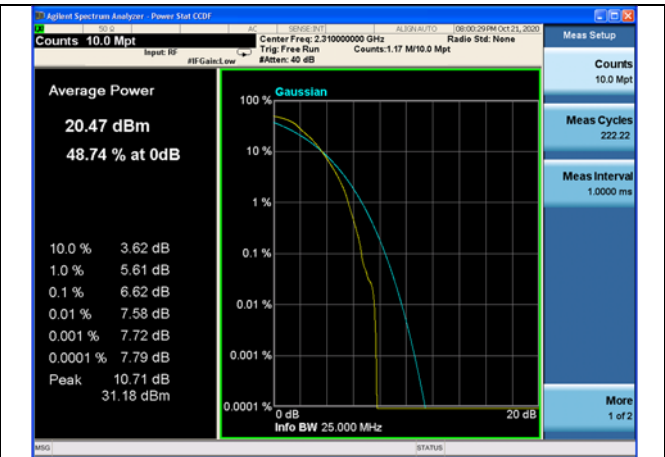


Fig.2

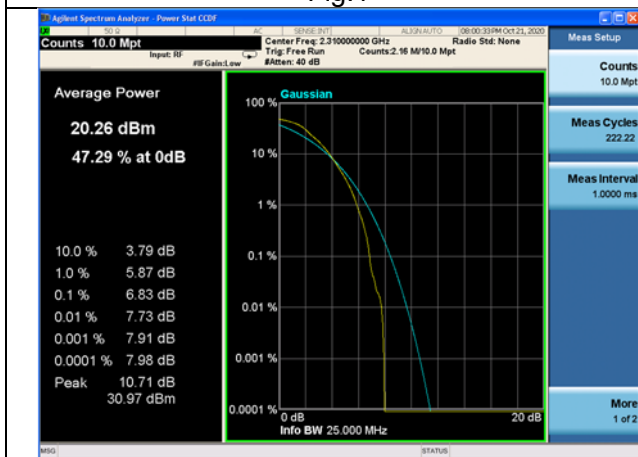


Fig.3

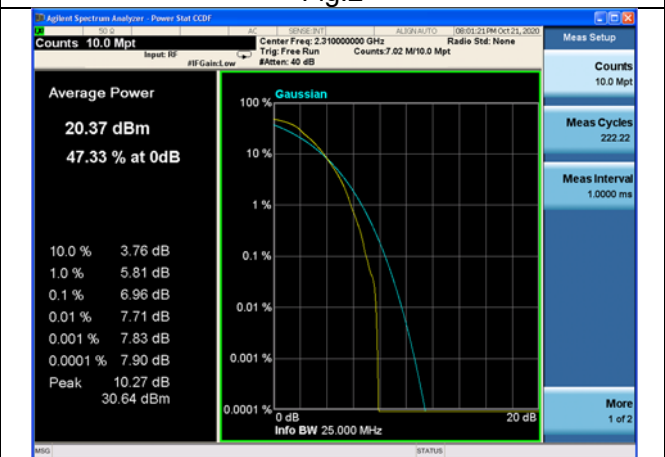


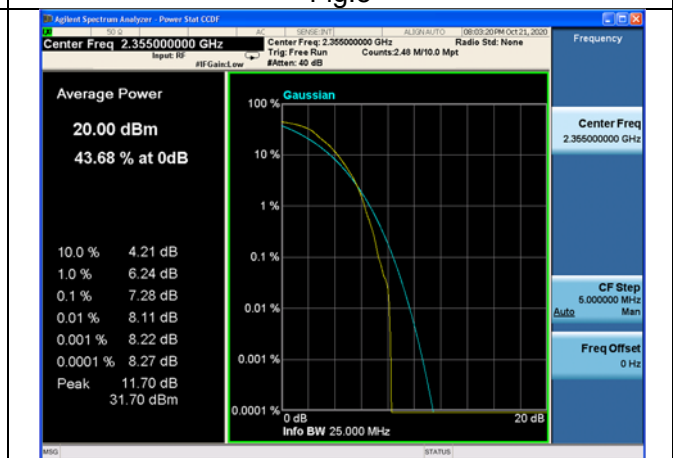
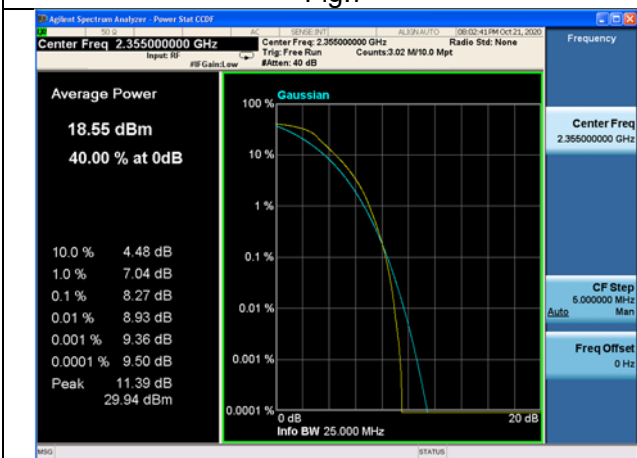
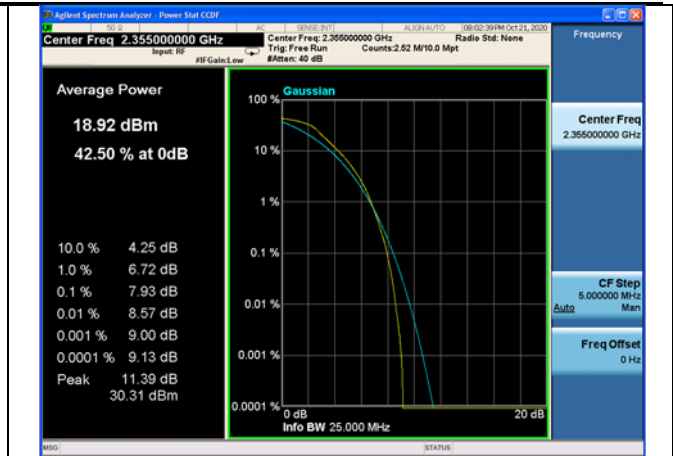
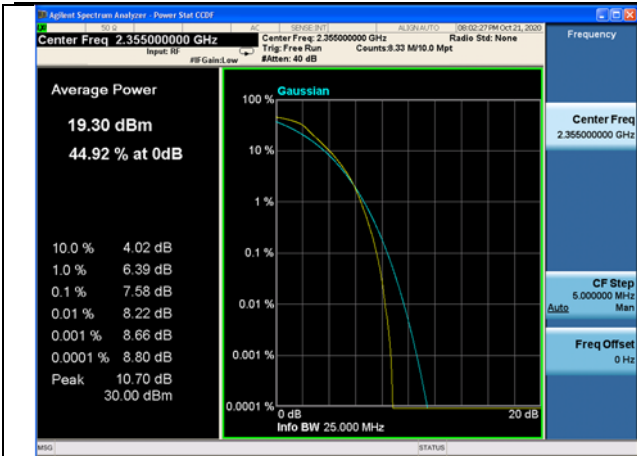
Fig.4



Fig.5



Fig.6



4 Spurious Emissions at antenna terminal

Band	Carrier frequency (MHz)	Channel	BW	RB Size	RB Offset	Conducted Spurious Plot
						QPSK
40	2310.0	38750	10	1	0	Fig.1-2
	2355.0	39200	10	1	0	Fig.3-4

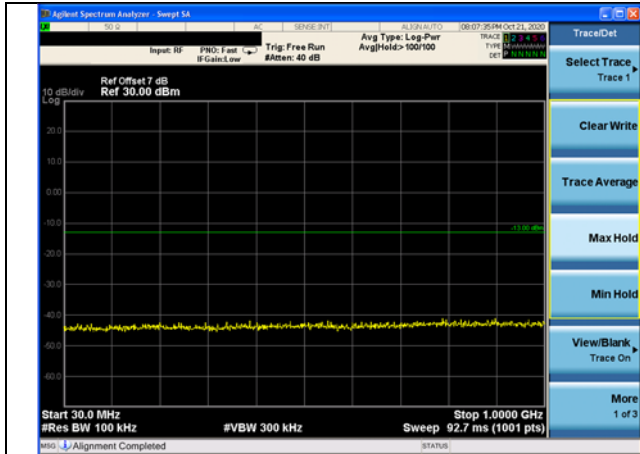


Fig.1



Fig.2

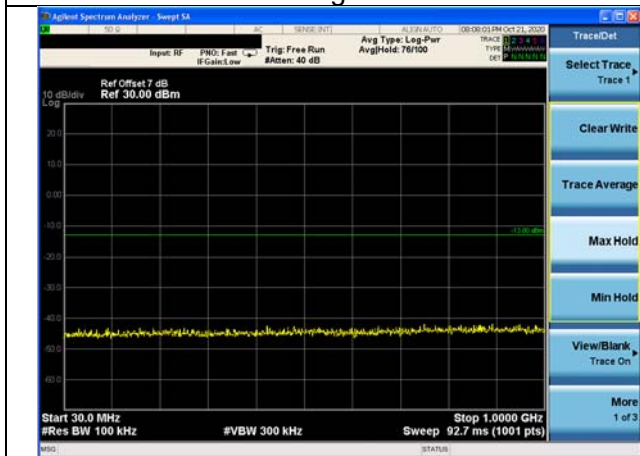


Fig3



Fig4

5 Band Edges Compliance

Test result

Band	Carrier frequency (MHz)	Channel	BW	RB Size	RB Offset	Band Edges Plot
						QPSK
40	2307.5	38725	5	1	0	Fig.1
				25	0	Fig.2
	1	24		Fig.3		
				Fig.4		
	2312.5	38775	5	1	0	Fig.5
				25	0	Fig.6
	1	24		Fig.7		
				Fig.8		
	2352.5	39175	5	1	0	Fig.9
				25	0	Fig.10
	1	24		Fig.11		
				Fig.12		
	2357.5	39225	5	1	0	Fig.13
				25	0	Fig.14
	1	24		Fig.15		
				Fig.16		
2310.0	38750	10	1	0	Fig.9	
			50	0	Fig.10	
			1	49	Fig.11	
			50	0	Fig.12	
2355.0	39200		10	1	0	Fig.13
				50	0	Fig.14
				1	49	Fig.15
				50	0	Fig.16

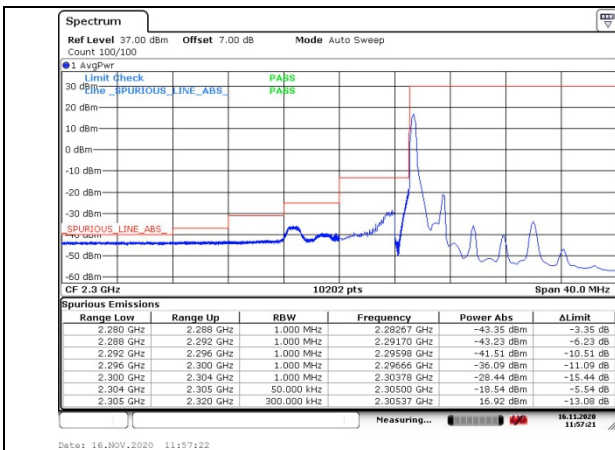


Fig.1

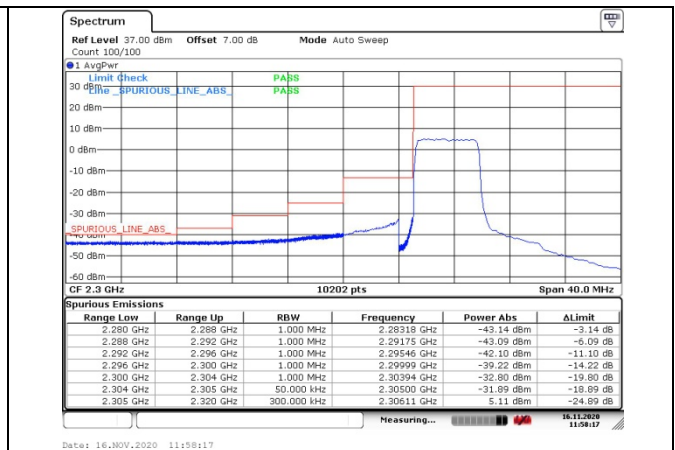


Fig.2

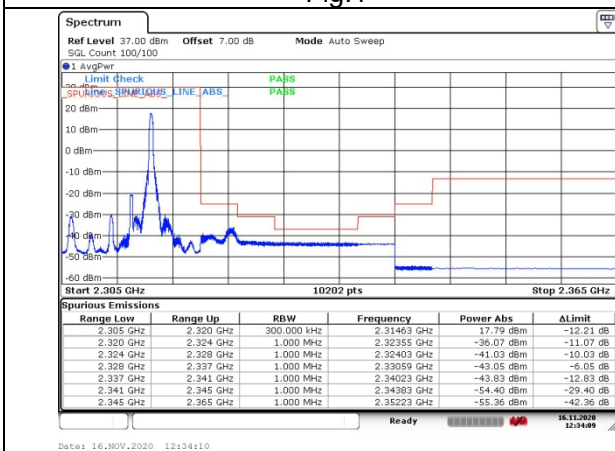


Fig.3

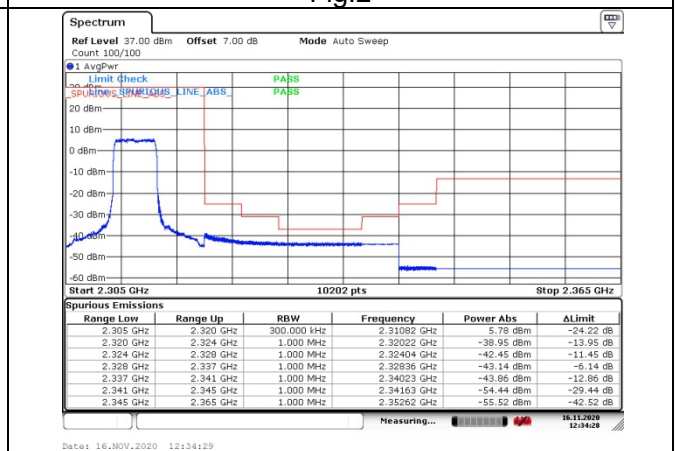


Fig.4

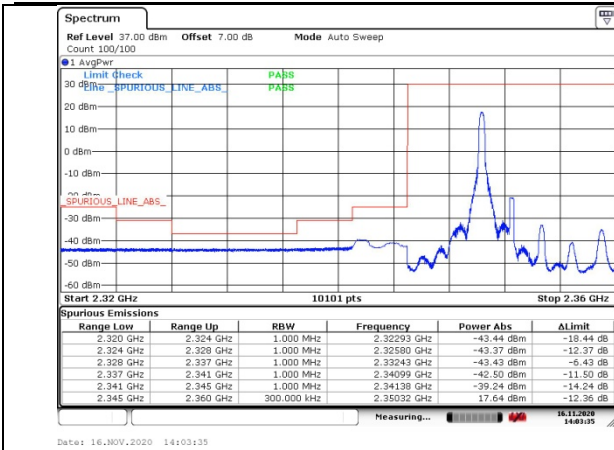


Fig.5

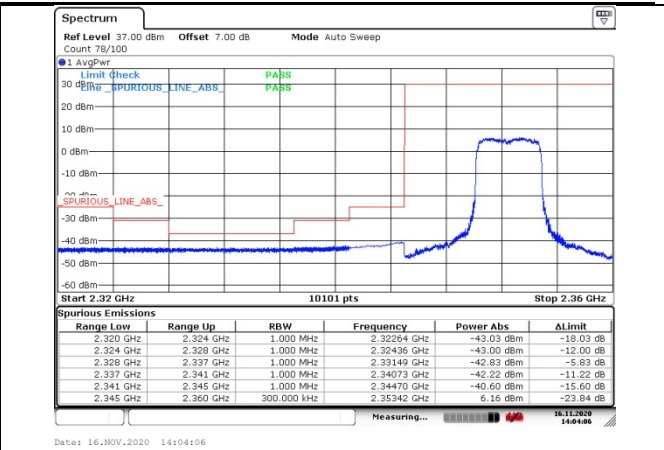


Fig.6

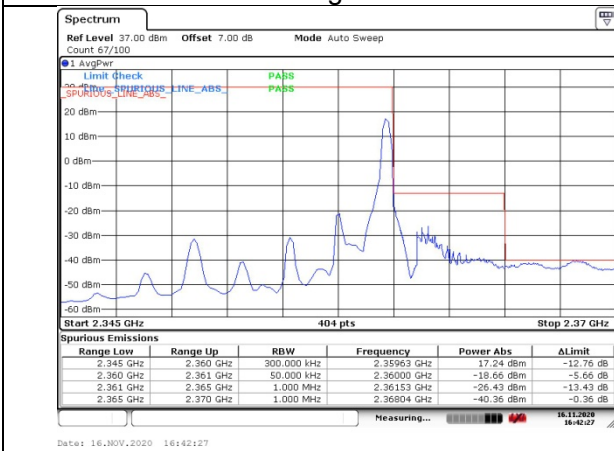


Fig.7

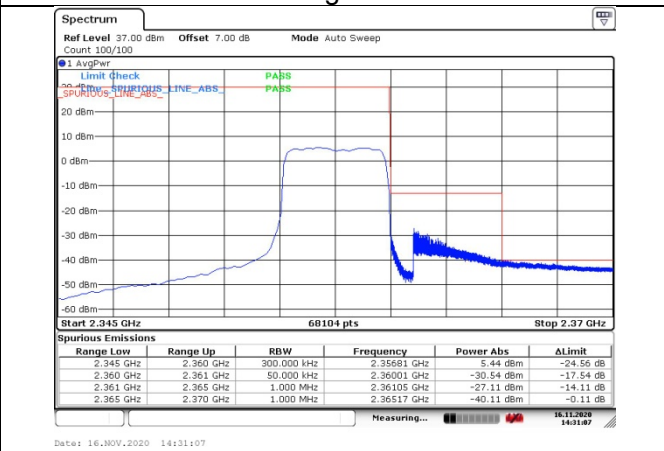


Fig.8

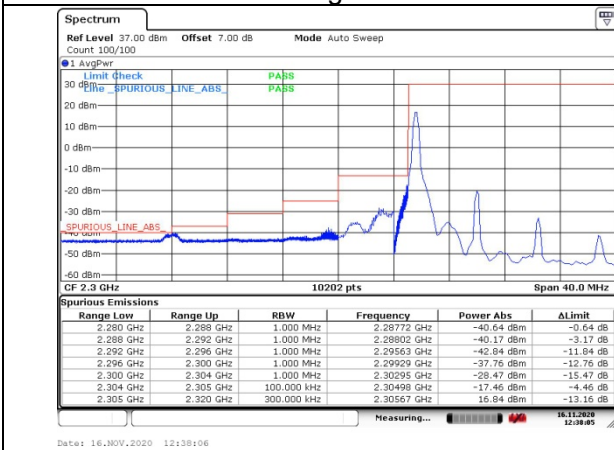


Fig.9

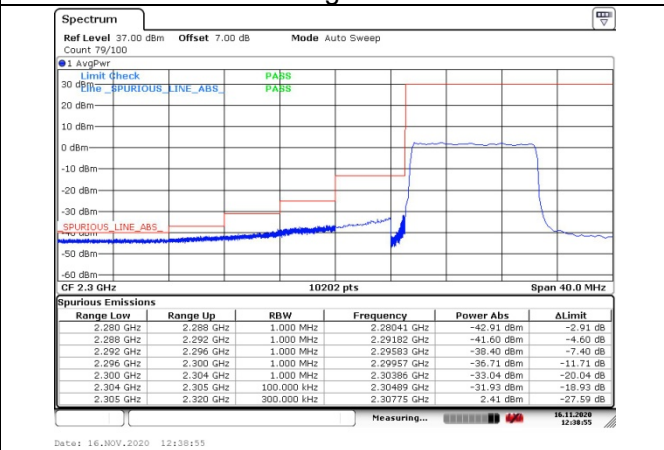


Fig.10

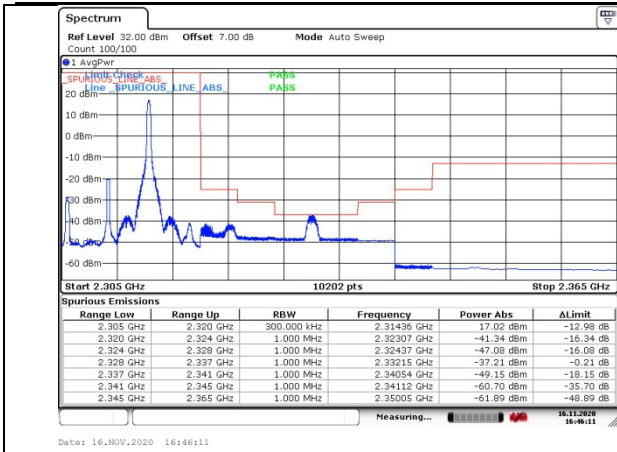


Fig. 11

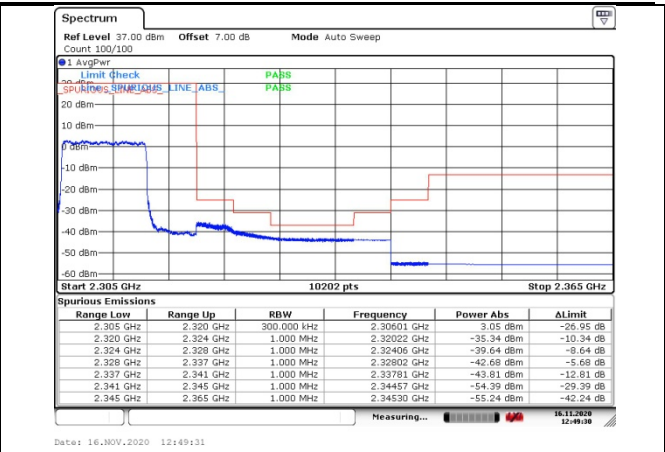


Fig. 12

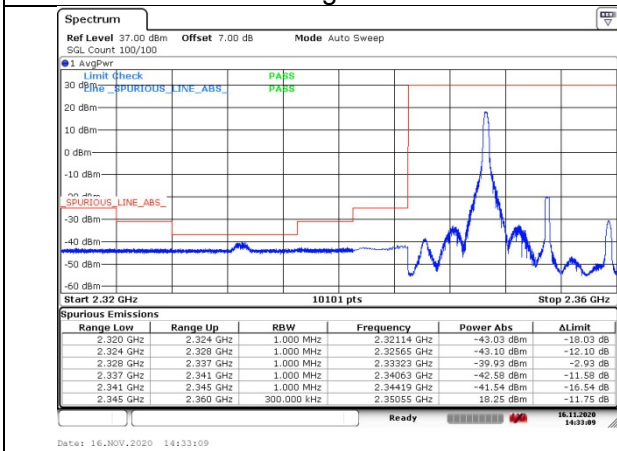


Fig. 13

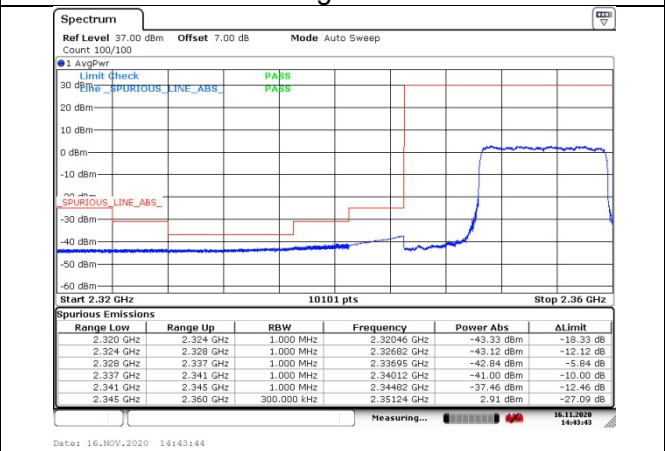


Fig. 14

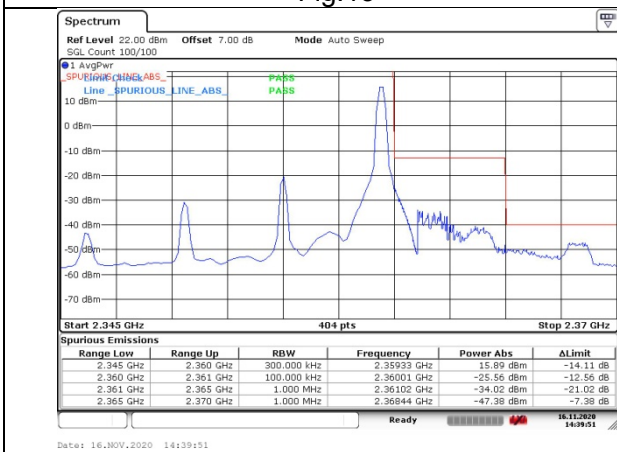


Fig. 15

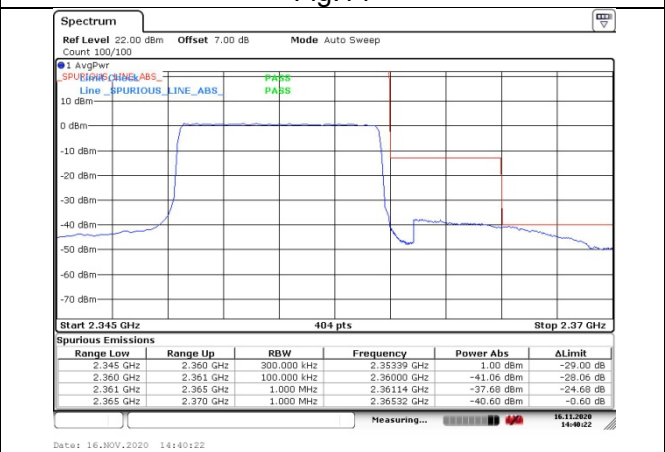


Fig. 16

6 Frequency Stability

Test result:

Temperature(°C)	Voltage	Test Result (ppm) Band40 2305-2315MHz			
		5MHz Low Channel	5MHz Mid Channel	5MHz High Channel	10MHz Mid Channel
-10	NV	-0.025	-0.056	-0.005	-0.058
0	NV	0.029	0.035	0.079	0.059
+10	NV	0.000	0.000	0.000	0.000
+20	NV	0.005	-0.025	-0.084	0.019
+35	NV	-0.007	0.013	-0.056	-0.067
+20	LV	-0.073	0.050	0.014	-0.058
+20	HV	-0.037	0.024	-0.088	0.054

Temperature(°C)	Voltage	Test Result (ppm) Band40 2350-2360MHz			
		5MHz Low Channel	5MHz Mid Channel	5MHz High Channel	10MHz Mid Channel
-10	NV	-0.043	-0.012	-0.054	0.007
0	NV	-0.071	0.077	0.072	0.081
+10	NV	0.000	0.000	0.000	0.000
+20	NV	0.066	0.089	0.045	0.004
+35	NV	0.086	-0.051	-0.095	0.074
+20	LV	-0.088	0.098	-0.080	-0.096
+20	HV	0.046	-0.034	0.021	0.055

Effective Radiated Power and Effective Isotropic Radiated Power

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	1MHz EIRP(W)
QPSK	2307.5	38725	5	1	0	0.045
				1	24	0.043
				12	6	0.043
				25	0	0.041
	2310.0	38750		1	0	0.048
				1	24	0.045
				12	6	0.044
				25	0	0.043
	2312.5	38775		1	0	0.045
				1	24	0.044
				12	6	0.042
				25	0	0.041
16QAM	2307.5	38725	5	1	0	0.043
				1	24	0.041
				12	6	0.040
				25	0	0.037
	2310.0	38750		1	0	0.046
				1	24	0.041
				12	6	0.041
				25	0	0.040
	2312.5	38775		1	0	0.044
				1	24	0.041
				12	6	0.039
				25	0	0.039
64QAM	2307.5	38725	5	1	0	0.043
				1	24	0.040
				12	6	0.040
				25	0	0.037
	2310.0	38750		1	0	0.045
				1	24	0.043
				12	6	0.043
				25	0	0.039
	2312.5	38775		1	0	0.041
				1	24	0.043
				12	6	0.039
				25	0	0.037

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	1MHz EIRP(W)
QPSK	2352.5	39175	5	1	0	0.045
				1	24	0.045
				12	6	0.043
				25	0	0.041
	2355.0	39200		1	0	0.049
				1	24	0.047
				12	6	0.045
				25	0	0.043
	2357.5	39225		1	0	0.046
				1	24	0.044
				12	6	0.042
				25	0	0.041
16QAM	2352.5	39175	5	1	0	0.046
				1	24	0.044
				12	6	0.041
				25	0	0.040
	2355.0	39200		1	0	0.046
				1	24	0.046
				12	6	0.044
				25	0	0.040
	2357.5	39225		1	0	0.047
				1	24	0.044
				12	6	0.041
				25	0	0.040
64QAM	2352.5	39175	5	1	0	0.043
				1	24	0.044
				12	6	0.041
				25	0	0.040
	2355.0	39200		1	0	0.045
				1	24	0.044
				12	6	0.044
				25	0	0.039
	2357.5	39225		1	0	0.044
				1	24	0.040
				12	6	0.039
				25	0	0.040

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	1MHz EIRP(W)
QPSK	2310	38750	10	1	0	0.048
				1	49	0.047
				24	12	0.045
				50	0	0.042
16QAM	2310	38750		1	0	0.048
				1	49	0.045
				24	12	0.045
64QAM	2310	38750		50	0	0.043
				1	0	0.047
				1	49	0.046
				24	12	0.042
64QAM	2310	38750		50	0	0.040
			1	0	0.047	
			1	49	0.046	
QPSK	2355	39200	10	1	0	0.048
				1	49	0.048
				24	12	0.045
				50	0	0.044
16QAM	2355	39200		1	0	0.048
				1	49	0.045
				24	12	0.046
64QAM	2355	39200		50	0	0.043
				1	0	0.047
				1	49	0.048
				24	12	0.044
64QAM	2355	39200		50	0	0.042
			1	0	0.047	
			1	49	0.048	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	5MHz EIRP(W)
QPSK	2307.5	38725	5	1	0	0.233
				1	24	0.230
				12	6	0.187
				25	0	0.186
	2310.0	38750		1	0	0.237
				1	24	0.232
				12	6	0.190
				25	0	0.187
	2312.5	38775		1	0	0.237
				1	24	0.233
				12	6	0.187
				25	0	0.185
16QAM	2307.5	38725	5	1	0	0.196
				1	24	0.197
				12	6	0.161
				25	0	0.156
	2310.0	38750		1	0	0.200
				1	24	0.195
				12	6	0.159
				25	0	0.160
	2312.5	38775		1	0	0.202
				1	24	0.200
				12	6	0.157
				25	0	0.158
64QAM	2307.5	38725	5	1	0	0.195
				1	24	0.193
				12	6	0.159
				25	0	0.160
	2310.0	38750		1	0	0.200
				1	24	0.196
				12	6	0.161
				25	0	0.157
	2312.5	38775		1	0	0.200
				1	24	0.195
				12	6	0.160
				25	0	0.155

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	5MHz EIRP(W)
QPSK	2352.5	39175	5	1	0	0.232
				1	24	0.230
				12	6	0.192
				25	0	0.187
	2355.0	39200		1	0	0.236
				1	24	0.234
				12	6	0.185
				25	0	0.183
	2357.5	39225		1	0	0.240
				1	24	0.238
				12	6	0.190
				25	0	0.190
16QAM	2352.5	39175	5	1	0	0.191
				1	24	0.190
				12	6	0.163
				25	0	0.152
	2355.0	39200		1	0	0.199
				1	24	0.198
				12	6	0.158
				25	0	0.155
	2357.5	39225		1	0	0.202
				1	24	0.203
				12	6	0.153
				25	0	0.157
64QAM	2352.5	39175	5	1	0	0.196
				1	24	0.192
				12	6	0.159
				25	0	0.162
	2355.0	39200		1	0	0.201
				1	24	0.199
				12	6	0.163
				25	0	0.161
	2357.5	39225		1	0	0.203
				1	24	0.191
				12	6	0.158
				25	0	0.157

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	5MHz EIRP(W)
QPSK	2310	38750	10	1	0	0.244
				1	49	0.240
				24	12	0.211
				50	0	0.210
16QAM	2310	38750		1	0	0.205
				1	49	0.204
				24	12	0.180
64QAM	2310	38750		50	0	0.178
				1	0	0.204
				1	49	0.201
				24	12	0.176
				50	0	0.174
			50	0	0.174	
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	5MHz EIRP(W)
QPSK	2355	39200	10	1	0	0.243
				1	49	0.240
				24	12	0.213
				50	0	0.210
16QAM	2355	39200		1	0	0.203
				1	49	0.201
				24	12	0.177
64QAM	2355	39200		50	0	0.174
				1	0	0.204
				1	49	0.202
				24	12	0.175
				50	0	0.173
			50	0	0.173	